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import java.io.*;

//////////////////////////////////////////////////////////////////
//
// The following program takes in a bunch of strings using a loop and //
// returns them without any spaces and tells you the amount of spaces that //
// have been removed. To stop the loop the user needs to enter stop which //
// is case insensitive; therefore, the user may enter stop in any //
// combination like Stop, StoP, StOp... . //
//
// WRITTEN BY: //
// ALAIN DADAIAN //
//
//////////////////////////////////////////////////////////////////
```

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class Hw08
{
    //-----
    // Removes all spaces from a string and then creates and retruns a //
    // new string without the spaces. It also calculates the number of //
    // spaces that have been taken out and prints it out. //
    //-----
    public static String deSpace(String s1)
    {
        String s2 = "";
        char c;
        int erased = s1.length();

        for (int i = 0; i <= s1.length() - 1; i++)
        {
            c = s1.charAt(i);

            if (c == ' ')
                s2 = s2;
            else
                s2 += c;
        }

        erased -= s2.length();

        s2 += "\nVaporized " + erased + " spaces!";

        return s2;
    }

    //-----
    // Converts a string to all upper case and then returns the string //
    // with the upper case letters. //
    //-----
    public static String makeAllCaps(String s1)
    {
        char c, uCLetters = 'A';
        String s2 = "";
        int counter = 0;

        for (int i = 0; i <= s1.length() - 1; i++)
        {
            c = s1.charAt(i);

            if (c == ' ')
                s2 += ' ';

            else
            {
                for (char lCLetters = 'a'; c != lCLetters; lCLetters++)
                    counter++;

                if (counter > 26)
                {
                    uCLetters = c;
                    counter = 0;
                }

                for (int j = 1; j <= counter; j++)
                    uCLetters++;

                s2 += uCLetters;
            }
        }
    }
}
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        uCLetters = 'A';
        counter = 0;
    }
}

return s2;
}

//-----

public static void main(String[] args) throws Exception
{
    String s;

    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

    System.out.println("Written by Alain Dadaian");

    do
    {
        System.out.print("In? ");
        s = br.readLine();

        if (!makeAllCaps(s).equals("STOP"))
        {
            System.out.print("Out? ");
            System.out.println(deSpace(s));
            System.out.println();
        }
    }
    while (!makeAllCaps(s).equals("STOP"));
} // end of the class Hw08

////////////////////////////////////

```